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1 [Session 3: inference and statistical analysis: A signal analysis of network traffic anomalies](#)

Paul Barford, Jeffery Kline, David Plonka, Amos Ron

November 2002 **Proceedings of the 2nd ACM SIGCOMM Workshop on Internet measurement**

Full text available: pdf(1.52 MB)

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Identifying anomalies rapidly and accurately is critical to the efficient operation of large computer networks. Accurately characterizing important classes of anomalies greatly facilitates their identification; however, the subtleties and complexities of anomalous traffic can easily confound this process. In this paper we report results of signal analysis of four classes of network traffic anomalies: outages, flash crowds, attacks and measurement failures. Data for this study consists of IP flow ...

2 [Efficient policies for carrying Web traffic over flow-switched networks](#)

Anja Feldmann, Jennifer Rexford, Ramón Cáceres

December 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 6

Full text available: pdf(209.39 KB)

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Keywords: HTTP protocol, IP flows, Internet traffic characterization, routing, signaling, switching

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L6	687	statistic\$4 near3 packet\$1	USPAT	OR	OFF	2005/03/28 19:15
L7	9	L6 with (count\$2 near2 byte)	USPAT	OR	OFF	2005/03/28 19:13
L8	1	L7 with (count\$2 near2 packet\$1) with memory	USPAT	OR	OFF	2005/03/28 19:13
L9	9	L7 with (count\$2 near2 packet\$1)	USPAT	OR	OFF	2005/03/28 19:14
L10	68	(packet\$1 near count) with (byte\$1 near count)	USPAT	OR	OFF	2005/03/28 20:32
L11	24	10 and (negative complemnt\$1)	USPAT	OR	OFF	2005/03/28 19:18
L12	6	10 and (negative complemnt\$1) and statistic\$3	USPAT	OR	OFF	2005/03/28 19:18
L13	6	(packet\$1 near count) with (byte\$1 near count) with value	USPAT	OR	OFF	2005/03/28 19:22
L14	24	10 and (packet\$1 near count) and (byte\$1 near count) and (negative 1\$complement\$1 complement\$1 one\$3complement\$1)	USPAT	OR	OFF	2005/03/28 20:25
L15	24	10 and (packet\$1 near count) and (byte\$1 near count) and (negative 1\$complement\$1 complement\$1 one\$3complement\$1)	USPAT	OR	OFF	2005/03/28 20:25
L16	1	(packet\$1 near count) with (byte\$1 near count) and radix	USPAT	OR	OFF	2005/03/28 20:32
L17	1	(packet\$1 near count) and (byte\$1 near count) and radix	USPAT	OR	OFF	2005/03/28 20:32
L19	137	monitor\$3 with network with statistical	USPAT	OR	OFF	2005/03/28 21:13
L20	44	monitor\$3 with network with statistical with information	USPAT	OR	OFF	2005/03/28 21:14
L21	9	(monitor\$3 with network with statistical with information) and packet and count and byte	USPAT	OR	OFF	2005/03/28 21:14
L22	0	(monitor\$3 with network with statistical with information) and (packet near2 count) and (byte near2 count)	USPAT	OR	OFF	2005/03/28 21:15
L23	2	(monitor\$3 with network with statistical with information) and (packet near2 count)	USPAT	OR	OFF	2005/03/28 21:15
S1	2	packet\$1 with statistic\$4 with memory with (packet\$1 near2 count\$1)	USPAT	OR	OFF	2004/10/07 18:45
S2	22	memory with (packet\$1 near2 count\$1 near5 byte\$1)	USPAT	OR	OFF	2004/10/07 18:49

S3	2	memory with (packet\$1 near2 count\$1 near5 byte\$1) same statistic\$4	USPAT	OR	OFF	2004/10/07 18:58
S5	8	statistical near2 value near4 packet\$1	USPAT	OR	OFF	2004/10/07 19:01
S10	41	statistic\$4 near4 packet\$1 near5 count\$1	USPAT	OR	OFF	2004/10/07 19:03
S12	633	statistic\$4 near3 packet\$1	USPAT	OR	OFF	2004/10/07 19:04
S13	8	S12 with (count\$2 near2 byte)	USPAT	OR	OFF	2005/03/28 19:14
S14	8	S13 with (count\$2 near2 packet\$1)	USPAT	OR	OFF	2004/10/07 19:04
S15	1	S13 with (count\$2 near2 packet\$1) with memory	USPAT	OR	OFF	2005/03/28 19:07
S16	498	709/223 and (data adj packet)	USPAT	OR	OFF	2004/10/02 14:54
S17	0	709/223 and (data adj packet) and staistical	USPAT	OR	OFF	2004/03/03 12:32
S18	87	709/223 and (data adj packet) and statistical	USPAT	OR	OFF	2004/03/03 12:32
S19	3	709/223 and (data adj packet) and (statistical adj value)	USPAT	OR	OFF	2004/03/03 11:34
S20	600	statistical adj value	USPAT	OR	OFF	2004/03/03 12:35
S21	16	(statistical adj value) and (first near3 (statistical adj value))	USPAT	OR	OFF	2004/03/03 12:36
S22	16	(statistical adj value) and (second near3 (statistical adj value))	USPAT	OR	OFF	2004/03/03 12:36
S23	3	(statistical adj value) and (third near3 (statistical adj value))	USPAT	OR	OFF	2004/03/03 18:24
S24	2	(statistical adj value) and (first near3 (statistical adj value)) and (second near3 (statistical adj value)) and (third near3 (statistical adj value))	USPAT	OR	OFF	2004/03/03 12:38
S26	1	(statistical adj value) and (first near3 (statistical adj value)) and (second near3 (statistical adj value)) and data and packet	USPAT	OR	OFF	2004/03/03 19:20
S28	1	(statistical adj value) and (first near3 (statistical adj value)) and (second near3 (statistical adj value)) and data and packet and (tcp udp ethernet IP hdlc)	USPAT	OR	OFF	2004/03/03 16:38
S29	1	(statistical adj value) and (first near3 (statistical adj value)) and (second near3 (statistical adj value)) and (data adj packet) and (tcp udp ethernet IP hdlc)	USPAT	OR	OFF	2004/03/03 16:38

S32	2	(statistical near2 value) same (stor\$3 and packet)	USPAT	OR	OFF	2004/03/03 18:28
S33	65	(statistical adj value) and Subset	USPAT	OR	OFF	2004/03/03 19:20
S40	7	709/223 and (data adj bit\$1) and Hash\$3 and key	USPAT	OR	OFF	2004/03/03 19:23
S41	3527	709/223	USPAT	OR	OFF	2004/03/03 19:25
S42	7	709/223 and (data adj bit\$1) and Hash\$3 and key	USPAT	OR	OFF	2004/03/03 19:25
S46	42	packet with statistic\$4 with (packet\$1 near2 count\$1)	USPAT	OR	OFF	2004/10/07 18:44
S47	2	packet with statistic\$4 with (packet\$1 near2 count\$1) with byte with memory	USPAT	OR	OFF	2004/10/02 15:00
S48	7	("5546390" "5873078" "6029170" "6223174" "6233574" "6298340" "6396842").PN.	USPAT	OR	OFF	2004/10/02 14:59
S49	2	packet with statistic\$4 with (packet\$1 near2 count\$1) with byte with memory	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/02 15:00
S50	25	packet with statistic\$4 with (packet\$1 near2 count\$1) and (network with traffic)	USPAT	OR	OFF	2005/03/28 21:13
S51	1	"6266513"	USPAT	OR	OFF	2004/10/04 12:52